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SEQUENCE LISTING

<100> THE SCRIPPS RESEARCH INSTITUTE
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SILVERMAN, Robert
WIEDMER, Therese

<120> PHOSPHOLIPID SCRAMBLASES AND METHODS OF USE THEREOF

<130> SCRIP1220-1

<140> US 09/823,847

<141> 2001-03-30

<150> US 60/193,939

<151> 2000-03-31

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<170> PatentIn version 3.0

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 tcaccaagca gtggtctggt tgtgtgaaag aggccttcac ggattcggat aactttggga 1020
 tccaattccc gctagacctg gaggtgaaga tgaaagctgt gacgcttggg gcttgcttcc 1080
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 aatcaatgaa agaggacaga gaagatctga agtctacaca aggagatcat atgattgaga 1200
 gacctggggc tttttgattt cttcattgaa atttctcaga atcaagctgt tatacatgaa 1260
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 ta 1622

<210> 12
 <211> 307
 <212> PRT
 <213> Mus musculus

<400> 12

Met Glu Ala Pro Arg Ser Gly Thr Tyr Leu Pro Ala Gly Tyr Ala Pro
 1 5 10 15
 Gln Tyr Pro Pro Ala Ala Val Gln Gly Pro Pro Glu His Thr Gly Arg
 20 25 30
 Pro Thr Phe Gln Thr Asn Tyr Gln Val Pro Gln Ser Gly Tyr Pro Gly
 35 40 45
 Pro Gln Ala Ser Tyr Thr Val Ser Thr Ser Gly His Glu Gly Tyr Ala
 50 55 60
 Ala Thr Arg Leu Pro Ile Gln Asn Asn Gln Thr Ile Val Leu Ala Asn
 65 70 75 80
 Thr Gln Trp Met Pro Ala Pro Pro Pro Ile Leu Asn Cys Pro Pro Gly
 85 90 95

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<211> 1708
<212> DNA
<213> Mus musculus

<400> 13
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tccagaacta agtctccctt acgccaaaag cccaagactc cctctctgat tcccatggca 180
ggctacttgc ccccaaagg ctatgccctt tcacccccac ctccctacc cgtgccatct 240
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gtgcctgccc ctgctcccgg ctctgctctc ttcccctcgc caggcccagt ggctccaggg 360
cctctgtctc ctttctgtgc attgccaggg gtgcctcctg gcctcgaatt cctagtgcag 420
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gagagcaact gttgtgcccc cctgtgctgt ggtgcccgcc gaccatttcg aatccgccta      600
gcggaccctg gggaccgcga ggtgctccgg ctctccgcc cacttcattg tggctgcagc      660
tgctgcccc gtggtcttca ggagatggaa gtccaggctc cacctggcac caccattggc      720
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caacctgttc tacgagttgt agggccttgc tggacttggt gctgtggtac agacaccaac      840
tttgaggtga agactaagga tgaatcgcca agtgtggggc gcatcagcaa gcagtgggga      900
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ctagatgtga aagtgaaggc cgtactgctg ggagccacgt tcctcatcga ttatatgttc     1020
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caactcccta agcccctggg ccctgcgggg gctttctgca gcttctgtg ccttatttaa     1620
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<210> 14
<211> 296
<212> PRT
<213> Mus musculus

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<400> 14
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Met Ala Gly Tyr Leu Pro Pro Lys Gly Tyr Ala Pro Ser Pro Pro Pro
1          5          10          15

Pro Tyr Pro Val Pro Ser Gly Tyr Pro Glu Pro Val Ala Leu His Pro
          20          25          30

Gly Pro Gly Gln Ala Pro Val Pro Thr Gln Val Pro Ala Pro Ala Pro
35          40          45

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Gly Phe Ala Leu Phe Pro Ser Pro Gly Pro Val Ala Pro Gly Pro Pro
 50 55 60
 Ala Pro Phe Val Pro Leu Pro Gly Val Pro Pro Gly Leu Glu Phe Leu
 65 70 75 80
 Val Gln Ile Asp Gln Ile Leu Ile His Gln Lys Ala Glu Arg Val Glu
 85 90 95
 Thr Phe Leu Gly Trp Glu Thr Cys Asn Met Tyr Glu Leu Arg Ser Gly
 100 105 110
 Thr Gly Gln Gln Leu Gly Gln Ala Ala Glu Glu Ser Asn Cys Cys Ala
 115 120 125
 Arg Leu Cys Cys Gly Ala Arg Arg Pro Phe Arg Ile Arg Leu Ala Asp
 130 135 140
 Pro Gly Asp Arg Glu Val Leu Arg Leu Leu Arg Pro Leu His Cys Gly
 145 150 155 160
 Cys Ser Cys Cys Pro Cys Gly Leu Gln Glu Met Glu Val Gln Ala Pro
 165 170 175
 Pro Gly Thr Thr Ile Gly His Val Leu Gln Thr Trp His Pro Phe Leu
 180 185 190
 Pro Lys Phe Ser Ile Leu Asp Ala Asp Arg Gln Pro Val Leu Arg Val
 195 200 205
 Val Gly Pro Cys Trp Thr Cys Gly Cys Gly Thr Asp Thr Asn Phe Glu
 210 215 220
 Val Lys Thr Lys Asp Glu Ser Arg Ser Val Gly Arg Ile Ser Lys Gln
 225 230 235 240
 Trp Gly Gly Leu Leu Arg Glu Ala Leu Thr Asp Ala Asp Asp Phe Gly
 245 250 255
 Leu Gln Phe Pro Val Asp Leu Asp Val Lys Val Lys Ala Val Leu Leu
 260 265 270
 Gly Ala Thr Phe Leu Ile Asp Tyr Met Phe Phe Glu Lys Arg Gly Gly
 275 280 285
 Ala Gly Pro Ser Ala Ile Thr Ser
 290 295

<210> 15

<211> 2162

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(2162)

<223> n is any nucleotide

<400> 15

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60

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atggcctttt	atcaacgatg	gtaaaatgctg	accactttga	gattcgcttc	cctttggccc	420
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 tcacgttgat agtgaaagtc agaatgcttc atatttctgt gctccatact tcagtgttca 2040
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 ct 2162

<210> 16
 <211> 170
 <212> PRT
 <213> Mus musculus

<400> 16

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 20 25 30
 Phe Arg Cys Thr Cys Cys Cys Phe Cys Cys Pro Cys Ala Arg Gln Glu
 35 40 45
 Leu Glu Val Gln Cys Pro Pro Gly Val Thr Ile Gly Phe Val Ala Glu
 50 55 60
 His Trp Asn Leu Cys Arg Ala Ser Tyr Ser Ile Gln Asn Glu Lys Lys
 65 70 75 80
 Glu Ser Met Met Arg Val Arg Gly Pro Cys Ala Thr Tyr Gly Cys Gly
 85 90 95
 Ser Asp Ser Val Phe Glu Ile Asn Ser Leu Asp Gly Val Ser Asn Ile
 100 105 110
 Gly Ser Ile Ile Arg Lys Trp Asn Gly Phe Leu Ser Thr Met Val Asn
 115 120 125
 Ala Asp His Phe Glu Ile Arg Phe Pro Leu Ala Leu Asp Val Lys Met
 130 135 140
 Lys Ala Met Ile Phe Gly Ser Cys Phe Leu Ile Asp Phe Met Tyr Phe
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 Glu Arg Pro Pro Pro Arg Arg Met Ser Arg
 165 170

<210> 17
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 17
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TOE130 4482350

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<210> 18
<211> 25
<212> DNA
<213> Artificial sequence
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<400> 18
cctgggtgctt agggtagaca atatg                25
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<220>
<223> Reverse primer for PCR

<210>	20
<211>	23
<212>	DNA
<213>	Artificial sequence

<220>
<223> Forward primer for PCR

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<400> 20
tgtgaggaga ccatcacctc gac                                     23
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<210> 21
<211> 22
<212> DNA
<213> Artificial sequence
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<220>
<223> Reverse primer for PCR

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<400> 21
aaagctgata tgctgtgtg cc 22
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<210> 22
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<212> DNA
<213> Artificial sequence
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<223> T7 promoter sequence contained in reverse primer

<400> 22
aattttaatac gactcactat aggg 24

<210> 23
<211> 14
<212> DNA
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<220>
<223> HuPLSCR1 GC box

<400> 23
taggggaggg gcct 14

<210> 24
<211> 14
<212> DNA
<213> Artificial sequence

<220>
<223> HuPLSCR1 GC box

<400> 24
aggaggtggg cgca 14

<210> 25
<211> 11
<212> DNA
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<220>
<223> HuPLSCR1 CCAAT box

<400> 25
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<210> 26
<211> 16
<212> DNA
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<220>
<223> Human Scramblase Splice donor site 1

<400> 26
agccagaggt gcgcgg 16

<210> 27
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice acceptor site 1

16

<220>
<223> Human Scramblase Splice donor site 2

16

<400> 29
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16

<220>
<223> Human Scramblase Splice donor site 3

16

<220>
<223> Human Scramblase Splice acceptor site 3

16

<220>
<223> Human Scramblase Splice donor site 4

<400> 32
taagtcagggt aatttc 16

<210> 33
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice acceptor site 4

<400> 33
tgctatagat agatca 16

<210> 34
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice donor site 5

<400> 34
tctggaaggt atgtat 16

<210> 35
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice acceptor site 5

<400> 35
gttttttagtt ttaaca 16

<210> 36
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice donor site 6

<400> 36
ttcaggaggt ctgtga 16

<210> 37
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Human Scramblase Splice acceptor site 6

<400> 37

<210> 43

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<400> 43
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13

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<400> 44
aaaaacagaa acc
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13

<400> 45
ggaaaaggaa acc

13